ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/12/98

Project: Waste Sulfuric, PO# M10360

Date Analyzed: 03/18/98

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE

FOR % ACID
Results Reported as Percent Acid by Volume

 Sample ID
 % Acid

 M10360
 2.4

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/12/98

Project: Waste Sulfuric, PO# M10360

Date Analyzed: 03/18/98

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR pH

 Sample ID
 pH

 M10360
 1.6

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/12/98

Project: Waste Sulfuric, PO# M10360

Date Extracted: 03/27/89 Date Analyzed: 04/02/98

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR SPECIFIC GRAVITY @ 15.56 °C

Sample ID

Specific Gravity

M10360

1.08

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/12/98

Project: Waste Sulfuric, PO# M10360

Date Extracted: 03/31/98 Date analyzed: 04/02/98

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR FINGERPRINT CHARACTERIZATION BY INDUCTIVELY COUPLED PLASMA (ICP) EMISSION SPECTROSCOPY

Samples Processed Using Method 3050
The Metals Were Found at Approximate Levels Indicated

Results Reported as mg/l(ppm)

Sample ID: M10360

Aluminum	60 ppm	Nickel	90 ppm
Antimony	<50 ppm	Palladium	<25 ppm
Arsenic	<50 ppm	Phosphorous	<100 ppm
Barium	<25 ppm	Platinum	<50 ppm
Beryllium	<25 ppm	Rhenium	<25 ppm
Boron	<25 ppm	Selenium	<50 ppm
Cadmium	10 ppm	Silicon	<25 ppm
Calcium	250 ppm	Silver	<25 ppm
Chromium	10 ppm	Sodium	210 ppm
Cobalt	<25 ppm	Strontium	<25 ppm
Copper	7,400 ppm	Thallium	<50 ppm
Gold	<25 ppm	Tin	<25 ppm
Iron	210 ppm	Titanium	<25 ppm
Lead	<50 ppm	Vanadium	<25 ppm
Magnesium	40 ppm	Zinc	9,700 ppm
Manganese	20 ppm	Zirconium	<50 ppm
Mercury	<25 ppm		
Molybdenum	<50 ppm		

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/12/98

Project: Waste Sulfuric, PO# M10360

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TURBIDITY AND pH

Laboratory Code: 801109-09 (Duplicate)

	Reporting	Sample	Duplicate	 Relative Percent	A	cceptan	rφ
Analyte	Units	Result	Result	fference		Criteria	-
pН		5.0	5.1	2		0-20	

ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/98 Date Received: 03/12/98

Project: Waste Sulfuric, PO# M10360

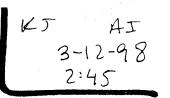
QUALITY ASSURANCE RESULTS FOR SPECIFIC GRAVITY

Laboratory Code: 803055-01 (Duplicate)

			Relative	
	Sample	Duplicate	Percent	Acceptance
Analyte	Result	Result	Difference	Criteria
Specific Gravity@ 15.56°C	1.08	1.09	1948 \ 1	0-20

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Scattle, WA 98119-2029 (206) 285-8282

PT # 803055 SAMPLE CHAIN OF CUSTODY



Send Report To: Contact GERACO Works Company_ Address City, State, Zip Se Phone # (206) FAX# (206) 382-4709 SITE NO. PROJECT NAME PURCHASE ORDER # m 10360 Sulferie WASTE SAMPLERS (signature) PROJECT LOCATION 3405 REMARKS SAMPLE DISPOSAL INFORMATION Dispose after 30 days Return Samples Call for Instructions Date/Time Type of # of Lab Analyses Sample # Sampled Sample Jars Sample # Requested 10760 3/1/98 10:00 SIGNATURE PRINT NAME COMPANY Date Time 1:00 I GET 11:00 Relinquished by: Received by:

FORMS/COC

02/12/98

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 3, 1998

DUPLICATE COPY

INVOICE #98ACU0403-2

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Waste Sulfuric, PO# M10630: Results of testing requested by Gerry Thompson for material submitted on March 12, 1998.

1 water sample analyzed for Percentage of Acid @ \$25 per sample	\$ 25.00
1 water sample analyzed for pH @ \$10 per sample	10.00
1 water sample analyzed for Specific Gravity @ \$25 per sample	25.00
1 water sample analyzed for Metal Scan using Method 6010 @ \$100 per sample	100.00
Amount Due	160.00

FEDERAL TAX ID (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 3, 1998

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on March 12, 1998 from your Waste Sulfuric, PO# M10360 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Manuel Marti Project Manager

Enclosures ACU0403R.DOC